

Docket No. 295295US0X PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Jean-Luc JESTIN, et al.

SERIAL NO: 10/590,810

GAU:

FILED: August 25, 2006

EXAMINER:

FOR: METHODS FOR OBTAINING THERMOSTABLE ENZYMES, DNA POLYMERASE I VARIANTS FROM THERMUS AQUATICUS HAVING NEW CATALYTIC ACTIVITIES, METHODS FOR OBTAINING THE SAME, AND APPLICATIONS TO THE SAME

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☒ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

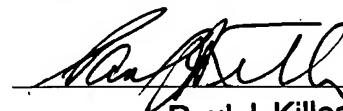
- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon



Paul J. Killos  
Registration No. 58,014

Customer Number

**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)



LIST OF RELATED CASES CITED BY APPLICANT UNDER 37 CFR 1.56	Docket No.: 295295US0X PCT	Serial No.: 10/590,810
	Inventor: Jean-Luc JESTIN, et al.	
	Filing Date: August 25, 2006	Group:

**LIST OF RELATED CASES**

<u>Examiner Initial</u>	<u>Docket No.</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent App. Publication No.</u>	<u>Inventor or Applicant</u>
	295295US0XPCT*	10/590,810	08/25/06		JESTIN, et al.
	266426US0XCIP	11/065,943	02/25/05	US2005/0250131 A1	JESTIN, et al.
	248628US0X	10/787,219	02/27/04	US2005/0191635 A1	JESTIN, et al.

Examiner

Date Considered

\*Present Application; listed for information  
NFO/sbs/kch

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
295295US0X PCTSERIAL NO.  
10/590,810

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Jean-Luc JESTIN, et al.

FILING DATE  
August 25, 2006

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2005/0250131 A1	11/10/2005	Jean-Luc JESTIN, et al.			
	AB	2005/0191635 A1	09/01/2005	Jean-Luc JESTIN, et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AM					
	AN					
	AO					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AP	Temple F. SMITH, et al., "Comparison of Biosequences", Advances in Applied Mathematics, vol. 2, 1981, pages 482-489
	AQ	Saul B. NEEDLEMAN, et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., vol. 48, 1970, pages 443-453
	AR	Relevant extract of "Current Protocols in Molecular Biology", Chapter 2, F. M. Ausubel, et al., John Wiley & Sons, Inc., 2000, pages (2.9.1)-(2.10.16)
	AS	Jean-Luc JESTIN, et al., "Improving the display of proteins on filamentous phage", Res. Microbiol., vol. 152, 2001, pages 187-191
	AT	Peter KRISTENSEN, et al., "Proteolytic selection for protein folding using filamentous bacteriophages", Folding & Design, vol. 3, no. 5, pages 321-328
	AU	Henrik PEDERSEN, et al., "A Method for directed evolution and functional cloning of enzymes", Proc. Natl. Acad. Sci. USA, vol. 95, September 1998, pages 10523-10528,
	AV	Jean-Luc JESTIN, et al., "A Method for the selection of Catalytic Activity Using Phage Display and Proximity Coupling", Angew. Chem. Int. Ed., vol. 38, no. 8, 1999, pages 1124-1127
	AW	Frances C. LAWYER, et al., "Isolation, Characterization, and Expression in Escherichia coli of the DNA Polymerase Gene from Thermus aquaticus", The Journal of Biological Chemistry, vol. 264, no. 11, April 15, 1989, pages 6427-6437
	AX	Sophie VICHIER-GUERRE, et al., "Iterative Cycles of In Vitro Protein Selection for DNA Polymerase Activity", Biocatalysis and Biotransformation, vol. 21, no. 2, 2003, pages 75-78
	AY	Gang XIA, et al., "Direct evolution of novel polymerase activities: Mutation of a DNA polymerase into an efficient RNA polymerase", Proc. Natl. Acad. Sci. USA, vol. 99, no. 10, May 14, 2002, pages 6597-6602

☐ Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.